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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/811,969	HOMEWOOD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Allyson N. Trail	2876				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) ☑ This 3) Since this application is in condition for allowant closed in accordance with the practice under E	- action is non-final. ice except for formal matters, pro					
Disposition of Claims						
 4) ☐ Claim(s) 1-88 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-88 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 						
Application Papers						
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 02 August 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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Art Unit: 2876

DETAILED ACTION

Claim Objections

1. Claims 30, 34, 63, 85 is objected to because of the following informalities:

Re claims 30 and 63: claims 30 and 63 depend on claims 27 and 60 respectively, and discloses the limitation of "the security feature". A security feature however is not disclosed in claim 27 or 60, however is disclosed in claims 29 and 62. Either the dependency of claims 30 and 63 should change to claims 29 and 62 respectively, or "the security feature" should be replaced with --a security feature--.

Re claim 85, line 2, replace "the security features" with --security features--.

Re claim 32, line 5, replace "it" with --the printed audit trail--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-6, 12, 19, 25, 26, 34-39, 45, 52, 58, 59, 67, 68, 69, 72, 82, and 83 are rejected under 35 U.S.C. 102(e) as being anticipated by Vadura et al (2004/0195323).

Vadura et al teaches the following in regards to claims 1, 2, 25, 26, 34, 35, 58, 59, 67, 68, 82, and 83:

"An electronic voting system has a voting administrative module connected to a plurality of voting modules connected via a network. A voter initiates the voting process by inserting a voting key into a voting key reader of a voting module. The voter then makes voting selections, which include casting votes, on a touch screen display of the voting module. After the voter is finished casting votes, a voter verifiable paper ballot is printed and an electronic ballot is saved on the electronic voting system. The voter can review the paper ballot. If the voter is not satisfied with the voting selections reflected on the paper ballot, then the paper ballot and the electronic ballot may be spoiled and the voter given a new voting key to use to re-cast the votes on the electronic voting system." (Abstract).

Vadura et al teaches the following in regards to claims 3, 36, and 69:

"The voting module includes a processor for analyzing voting information and one or more electronic storage devices for storing voting information." (Paragraph 0007).

When the voter is finished with the paper ballet, it is deposited (hidden) in the ballot box at the polling site. (Paragraph 0020).

Vadura et al teaches the following in regards to claims 4, 5, 6, 12, 37-39, 45, and 72:

"The electronic voting system also includes at least one printer that has a third network interface for connectivity to the network of voting modules, or it includes a printer that is directly connected to each voting module." (Paragraph 0007).

Vadura et al teaches the following in regards to claims 19 and 52:

"The printer 24 comprises any device capable of storing information in a fixed form, such as a paper print-out. For example, the printer 24 may be, the Lexmark Z55 lnk Jet printer utilized for printing, for example, tally reports and paper ballots." (Paragraph 0036).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7, 8, 40, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Spitzer (5,299,436).

Vadura et al's teachings discussed above fail to teach detecting the printer being removed from the voting machine and also to include a locking device.

Spitzer teaches the following in regards to claims 7, 8, 40, and 41:

"Electronic equipment, such as printers, computers, facsimile machines and the like, are used widely in offices and other organizations, such as schools and hospitals. Such valuable equipment, can be easily stolen from the premises, since they are portable and are very accessible. Thus, various security devices have been employed to fasten releasably a unit to be protected, to a supporting surface, such as a table top or desk." (Col. 1, lines 21-28).

Figure 1 shows the security feature including the electronic locking system.

In view of Spitzer's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include a detector for sensing the removal of the printer and a locking mechanism to ensure that the printer cannot be removed. Vadura et al teaches the importance of the printer in the method of voting. One would be motivated to include both the sensor and the locking device as taught by Spitzer in order to guarantee that the printer remain connected to the voting machine taught by Vadura et al.

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6. Claims 9-11, 42-44, 70, and 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in combination with Kenii (2003/0030657) and in further view of Caputo et al (2004/0051368).

Vadura et al's teachings discussed above. Vandura et al's teachings fail to specifically teach the voting machine containing an RFID reading and reading an RFID tag from the printer to confirm an attachment of a correct printer to the machine.

Kenji teaches the following in regards to claims 9-11, 42-44, 70, and 71:

"With reference to FIG. 7, where a PIN code is not received from the printer 3 within a prescribed period of time (NO in S111), the personal computer 1 displays on the display 106 an error message indicating that the image data output destination is not an authorized printer (S112) and sends to the management server 2 a print result report indicating that printing did not end normally (S113), whereupon the image distribution process is ended. On the other hand, where a PIN code is received from the printer 3 within the prescribed period of time (YES in S11), it is verified whether or not the received PIN code matches the PIN code received in step S107 together with

the image data output permission notification. Where they do not match (NO in S114), the personal computer 1 displays an error message indicating that the image data output destination is not an authorized printer (S112) and sends a print result report to the effect that printing did not end normally to the management server 2 (S113), whereupon the image distribution process is ended. Consequently, output of image data to an apparatus that is not an authorized printer can be prevented, thereby preventing improper use of the output image data." (Paragraph 0040).

In view of Kenji's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include a method of detecting that an authorized printer is connected to the correct computer. As discussed throughout, the verification of the correct paper ballet is extremely important in order to ensure accurate voting. One would be motivated to detect that an authorized printer be connected to the correct voting machine in order to make certain that the designated security paper be used for the printing of the paper ballet.

The combination of teachings of Vandura et al and Kenji however fail to specifically use RFID tags to validate the use of an authorized printer.

Caputo et al teaches using RFID tags to verify that the correct patient to receive a medication. (Paragraph 0051).

In view of Caputo et al's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to use an RFID tag to detect that an authorized printer is connected to the correct computer. As discussed above, Kenji teaches using a PIN code to verify that the printer is correct. One would be

motivated to use an RFID tag in place of a PIN code because RFID tags can detect the presences of the printer automatically instead of manually entering a PIN code. This would make the process of detection faster and more accurate.

7. Claims 13-16, 17, 46-50, 53-55, and 73-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Nomura et al (2002/0171681).

Vadura et al's teachings discussed above fail to specifically teach the touch screen being partially transparent and further fails to teach the touch screen being an LCD screen.

Nomura et al teaches the following in regards to claims 13, 14, 16, 17, 46, 47, 49, 50, 53-55, 73, 74, and 76:

"LCD 12 is a touch-panel LCD (an LCD having a transparent touch screen) capable of graphic display and includes a transparent touch screen (touch keys) which allows for designation of various conditions and selection of desired display content, based on the information displayed on the display in a flip-through manner." (Paragraph 0055).

In view of Nomura et al's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include a partially transparent LCD touch screen as taught Nomura et al in the voting system taught by Vadura et al. Vadura et al teaches both a touch screen and viewing the printed paper ballet in order to prevent errors in voting. One would be motivated to use an LCD screen because LCD screens are easy to manufacture and work well in a touch screen

format. Additionally, one would be motivated to include a partially transparent screen in order to view other components of the Vadura et al's voting system. For example, by making the screen transparent, the voter is able to clearly see the printer, which prints the selected votes for comparison.

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8. Claims 18 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Kobayashi et al (6,232,993).

Vadura et al's teachings discussed above fail to specifically teach the printer being a reel-to-reel type paper feeding system.

Kobayashi et al teaches the following in regards to claims 18 and 51:

Figure 26 shows a printer 10 comprising a paper reel 13, a ribbon feed reel 14, and a ribbon winding reel 15 with a printing paper 16.

In view of Kobayashi et al's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to use a reel-to-reel type printer for the printing paper ballets disclosed in Vadura et al. Reel-to-reed type printers are well known in the art. One would be motivated to use this particular type of printer because the paper is feed carefully and precisely through the feeder thereby printing accurately.

Claims 20-22, 31-33, 64-66, 77-79, and 86-88 are rejected under 35 U.S.C.
 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Harris (5,871,615).

Vadura et al's teachings discussed above fail to specifically teach the recording medium of ht printer including an ink die security feature to ensure that the printed audit is authentic.

Harris teaches the following in regards to claims 20-22, 31-33, 64-66, 77-79 and 86-88:

Harris's invention is related to a method for the manufacture of security paper (title).

Harris further teaches, printing a pattern on paper. The pattern facilitates further enhancement of the security of the paper, for example, by the application of a fluorescent ink to the surface of the paper carrying the tactile pattern. The high points of detail on the tactile pattern can be passed into contact with an ink roller carrying the fluorescent ink, leaving the low points unaffected. When the ink is dried and the paper is viewed under UV light, the outline of the image can be clearly seen. This additional security feature can be applied in a cost-effective way on the papermachine after the paper has been dried, at any convenient location prior to reel-up. Visible or other types of ink can be applied instead of or in addition to the fluorescent ink. (Col. 3, line 58 – Col. 4, line 4).

In view of Harris's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include a security feature, such as the feature taught by Harris on the printed ballot taught by Vadura et al. The importance of voter authenticity during voting is extraordinarily important. Including a security feature on the paper ballet would ensure authenticity of the voter's selections.

One would be motivated to include the security feature in order separate fraudulent paper ballets with authentic ones.

10. Claims 23, 24, 56, 57, 80, and 81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Brown (2003/0047596).

Vadura et al's teachings discussed above fail to specifically teach using privacy shield between the voting machines.

Brown teaches the following in regards to claims 23, 24, 56, 57, 80, and 81:

"Legs, 26, and carrying rings, 27, may be employed to improve the transportability of the voting machine. It would be realized to a skilled artisan that curtains, shields, or other privacy features may be incorporated without departing from the scope of the present invention." (Paragraph 0026).

In view of Brown's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include in Vadua et al's voting system, privacy shields between the voting machines as taught by Brown.

Although Vadura et al does not specifically teach privacy shields it is common knowledge that each voting machine is separated with a shield from one another. One would be motivated to privacy shields so that voters do not feels as though others can see his or her selection.

11. Claims 27-30, 60-63, 84, and 85 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vadura et al (2004/0195323) in view of Mandel et al (5,752,697).

Vadura et al's teachings discussed above fail to specifically teach a temper resistant holder for the recording medium contained in the printer.

Mandel et al teaches the following in regards to claims 27-30, 60-63, 84, and 85:

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The printer includes an internal paper path for printing with sheet jam clearance capability and a system for signaling a sheet jam, and at least one openable printer access door providing access to the paper path for jam clearances; a print job security improvement system with an automatic locking system for electronically locking the printer access door and an access door on the mailboxing system during printing of security sensitive print jobs to prevent access to the internal printer paper path. "Abstract".

In view of Mandel et al's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to include a security feature or tamper resistant holder for the paper used in the printing device. As discussed above, voter authenticity is extremely important and including paper with a security feature helps ensure that validity of the paper ballet. One would be motivated to include a tamper resistant holder for the printer paper in order to ensure that the paper in the printer is that of the security type paper. By including a lock, only authorized personnel will be able to add paper to the printer. This will make certain that the correct paper is in the printer.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Van Kuringen (5,933,583), Hawkins et al (2001/0001859), Smith (2004/0080777), and Bell et al (2005/0062410).

13. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allyson N. Trail whose telephone number is (571) 272-

2406. The examiner can normally be reached between the hours of 7:30AM to 4:00PM

Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael G. Lee, can be reached on (571) 272-2398. The fax phone number

for this Group is (703) 872-9306.

Communications via Internet e-mail regarding this application, other than those

under 35 U.S.C. 132 or which otherwise require a signature, may be used by the

applicant and should be addressed to [allyson.trail@uspto.gov].

All Internet e-mail communications will be made of record in the application file.

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U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published

in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG

89.

Allyson N. Trail Patent Examiner Art Unit 2876 April 22, 2005 JARED J. FURESIAN PRIMARY EXAMINER